1. **BLUEPRISM**

PROs

1 Good workflow/flowchart designer - enables better traceability of automation with process and ease of maintenance.

2 Business objects are reusable by design

3 Supports distributed development. True enterprise level centralized Architecture.

4 In built reporting module with lowest level of granularity and strong analytical engine.

5 Detailed transaction log available

6 Supports Role based access control, Active Directory (AD) integration

7 Tool can get Control room data through query

8 Centralized secured credential storage and HIPPA, PCI compliant security standard.

9 Ability to provide BP components as web service - provide greater flexibility in designing enterprise level solution.

10 Runtime execution is fast, but slower than AA

11 Good all-round functionality with a proven track record of deployment at many enterprises

12 OCR support (Tesseract)

Cons

1 "Record and Play" feature not available

2 Windows 10 not supported

3 Limited browser support beyond IE

4 Version control management tool not available

5 Product Licence is costly. Need to have minimum licences.

6 Windows based control room as opposed to web based control room from compatatiors.

7 Mainly used for Backoffice (unassisted automation). RDA / assisted automation is supported through surface automation (double check) using events like button click event.

**Important Elements of Blue Prism:**

Process studio

Object studio

Control room

System manager and Release manager

Application Modeller

**2. Pega Robotics / Openspan:**

**PROs**

**1** Great RPA tool for both RDA and RPA. RDA is assisted automation where Agent an Bot work together. It requires a design of user interface.

2 Integrated with Visual studio and great if you have DotNet/C# experience.

3 Framework components like Logging, runtime configuration (read dynamic values from xml) can be built as C# DLL / custom conrols and import it to openspan studio.

5 Text adapter/Emulator for mainframe support

6 TFS integration

**Cons**

**1** Non Visual studio .Net developers find it difficult.

2 Localized credential staorage in flat file.

3 Inbuilt work queues not available

**Important Elements of PegaRobotics/Openspan**

**1** Robotic Desktop Automation (RDA) support by adding windows forms

2 Adapters (Web, Desktop, Text and Citrix)

3 Global Container, Activities and Interaction manager to pass data back and forth between projects

4 Entry and Exit points

**3. Automation Anywhere:**

**PROs**

**1** "Record and Play" feature available making development easy and faster

2 Supports MODI, TOCR and external OCR Engines (Accuracy is very good)

3 Built in Software version control (SVN) available

4 Centralized web based dash board for runtime Bot monitoring

5 Good analytical feature plug-in (Bot Insight) for business and operational data

6 Metabot feature available to integrate DLLs, create re-usable components and perform offline development

7 Supports Role based access control

8 Ease of deployment. Offers flexibility and ease of doing business

9 Runtime execution is fast

10 Desktop automation as well as enterprise capabilities

11 Web based control room that allows to access it from mobile

**Cons**

**1** Inbuilt work queues not available

2 AA has localized credential staorage in flat file. Credential vault is not secured for users

3 Need minimum programming experience

4 AA only has task level reporting capability

5 AA has procedural approach towards exposing AA components.

6 AA fails to create a complete Virtual workforce concept by not allowing to share same workstation with Agent/user.

7 Exposing web service not supported in AA

8 Limited features for data driven backend operations, compare to its competators. For ex, excel automation or file automation.

**Elements of AA**

**1** TaskBot - Basic Automation License, used to automate rule based transactional processes

2 MetaBot - Advanced features for large deployments, Offline app automation and consuming objects.

3 IQBot - For Cognitive RPA.

4 BotFarm - For cloud deployment

5 BotInsight - For business and operational analytics

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**4. UiPath**

**PROs**

**1** Has robust workflow designer and recording feature

2 Efficient image recognition

3 Feature available to record Citrix processes

4 Business objects are re-usable (Sequences, flowcharts)

5 Native support to OCR and various Cloud options (Average accuracy)

6 In-built software version control (TFS, SVN)

7 Supports Role based access control

8 Elastic search / indexer server available for operational and historical data of the robots

9 Multi-tenancy – you can separate control room into several areas e.g. per department or DEV and QA

10 Supports both front and back office automation

**Cons**

**1** Overall runtime performance is slow

2 Requires 8 GB RAM

3 Java code not supported whereas VBA, C# are supported

4 Able to extract PDF data but extracting tabular data from PDF is lengthy process

**Elements of UiPath:**

**1** UiPath robots - Enterprise ready Front and Back office robot

2 UiPath Studio -

3 UiPath Orchestrator - Enables the Orchestration and management of thousands of robots from a single command centre